



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Best Available

In re application of:

Albertelli, Joseph

Serial No. 10/728,503

Filed: 12/05/2003

**For: Secure Composite Cockpit Door
and Method of Manufacture**

Examiner: J. Woodrow Eldred

Group Art Unit: 3644

Attorney Docket: 70811.01

San Diego, California

Date: 02/14/2005

Affidavit of Joseph Albertelli

1. My name is Joseph Albertilli. I am the President of Advanced Composites Engineering, LLC. (hereinafter "ACE").
2. I have a degree in Bachelors of Science in Mechanical Engineering from the Department of Engineering at the University of Hartford in Hartford, CT.
3. Prior to October 25, 2001, I conceived of an invention of Secure Composite Cockpit Door and Method of Manufacture. My conception was of a claimed invention in a complete and operative form as it has been applied in practice including material, processes and means by which the claimed invention would be produced.
4. On January 29, 2001, I and ACE requested for an Invitation to Quote from the Boeing Company for producing lightweight and secure composite underwater autonomous vehicle (UAV) skins (Proprietary Material). The composite technology incorporated in the UAV skins was subsequently applied to my secure cockpit door invention. Copies of these documents are attached in a separate envelope with the entitled label "Proprietary Material Not Open to the Public. To Be Opened Only by the Examiner or Other Authorized Patent and Trademark Office Employees".
5. On March 23, 2001, I and ACE participated in an Invitation to Quote with the Boeing Company for producing lightweight and secure composite UAV skins (Proprietary Material). The composite technology incorporated in the UAV skins was subsequently applied to my secure cockpit door invention. Copies of these documents are attached in a separate envelope with the entitled label "Proprietary Material Not Open to the Public. To Be Opened Only by the Examiner or Other Authorized Patent and Trademark Office Employees".

6. During the Month of April 2001, I have been conceived the concept to applied composite technology to a secure aircraft cockpit door. Attached are some pictures taken during the Month of April 2001 demonstrating fabrication of various secure composite aircraft parts, including the secure cockpit door for the MD-80 commercial aircraft (see picture marked "C"). A copy of these pictures are attached in Exhibit C.

7. On September 14, 2001, I conducted firearm tests using my secure composite aircraft door at commercial firearm facility in Southern California. The firearm tests showed that the $\frac{1}{4}$ inch composite cockpit door stopped (mushroomed and captured within the composite layers) most small arms fired at the door from an appropriate distance. The firearm tests also showed that the $\frac{1}{2}$ inch composite cockpit door stopped most stopped rifle fire and nickel plated bullets fired at the door from an appropriate distance.

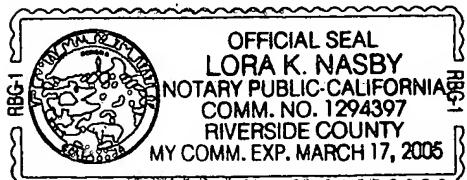
8. On September 19, 2001, I sent a confidential letter to President George Bush disclosing, in general terms, my secure cockpit door concept, current design activities, and firearm testing results. This document is attached in Exhibit A.

9. On September 26, 2001, I received a response to my letter to President George Bush from a Lyle O. Malotky, PhD, the Chief Scientific and Technical Advisor for the Federal Aviation Administration. In this letter, Mr. Malotky stated that the Secretary of Transportation was establishing two Task Forces to address precisely the matters I discussed. This document is attached in Exhibit B.

10. Since this time, I have been continuing to test and improve my secure cockpit door and filed a Provisional Patent Application on December 10, 2002 which was granted application number 60/432,551. A copy of this document is attached in Exhibit D.

11. I continued to test and improve my secure cockpit door and filed a non-provisional patent application On December 5, 2003 which was granted application number 10/728,503. This patent application is the subject matter for which this Affidavit is being submitted.

12. I declare that I believe all of the above statements to be true and correct.




Joseph Albertelli

Date

STATE OF CALIFORNIA
COUNTY OF RIVERSIDE
SUBSCRIBED AND SWORN TO BEFORE ME
THIS 17 DAY OF Feb 2005
Lora K. Nasby
NOTARY PUBLIC

Notarization statement

Following identification sworn to and subscribed before me this 14 day of February 2005.

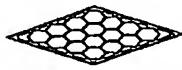
STATE OF CALIFORNIA
COUNTY OF RIVERSIDE
SUBSCRIBED AND SWORN TO BEFORE ME
THIS 14 DAY OF Feb 2005
Lora K. Nasby
NOTARY PUBLIC



EXHIBIT A

LETTER TO PRESIDENT GEORGE BUSH

Advanced Composites Eng.



42245 Sarah Way Temecula, CA 92590
(909) 694-3055 ph. (909) 694-4225 fax
www.advancedcompositeseng.com
advcomp@iinet.com

Wednesday, September 19, 2001

President George Bush
1600 Pennsylvania Avenue
Washington D.C. 20500

Dear Mr. President,

After watching the tragic events of last week unfold we, like the rest of America were first shocked and horrified, then we looked for a way to help. We had been working with Penn State University on a bomb containment chamber using some of the newest materials and technology available. We believe that with the techniques and materials we use combined with a design we have developed we can produce a secure door for our nations airlines.

Although most people automatically assume that such a door will take a long time to develop and will be expensive requiring major aircraft modifications. We believe that our solution offers an affordable, expedient remedy.

We have already built 1/4" and 1/2" thick panels using a proprietary fiber matrix and resins overlaid on wood. Our testing showed that the 1/4" thick panel stopped most small arms fire. The 1/2" panel stopped rifle fire and even stopped nickel plated bullets. The way we lay up the laminates the bullets initially mushroom then are captured in the panel.

Using these panels, we have run through a number of design ideas, some of them have already been sent to American Airlines, Flight Operations Technical office, through a pilot of American Airlines. We have continued to review the designs and the needs of the flight crews. We believe that simply by installing a security flange on the existing door with an overlapping panel which the pilots can slide over the existing hinge system and a cover for the existing door handle which the pilots also slide over the handle from the inside, we can provide a secure barrier door which is bullet proof and will prevent unwanted intrusion into the cockpit. This design will still allow the flight crews easy and quick egress from the cockpit. Our retrofit will not detract from the current aircraft design requirements for the bulkhead to have an ability to release air in the case of explosive decompression because we can use the same type of pressure release panels which we use in the bomb containment chambers.

We are excited to be able to help in these trying times. We are a manufacturing company which specializes in the use of composites. We have a current government contract number and have our Dunn and Brad Street registration. We have previously supplied parts to Boeing and other primary defense contractors and are well aware of the tremendous responsibility of providing a

high quality product in a timely manner. You can find out more about our capabilities and expertise online at www.advancedcompositeseng.com.

As we review all of our data and look at the requirements to manufacture a large number of doors in a short period of time we have already made inquiries of our suppliers and are anxious to get started. We believe that we can supply this security system for less than \$20,000 per aircraft!

We have available, design drawings which have been completed for the MD80 cockpit door. We choose to start with the MD80 since it comprises the largest number of aircraft in the American Airlines fleet. This design, with very little modification will work on all existing aircraft in the fleets of the airlines of our country.

Thank you for all that you are doing. Please let us help.

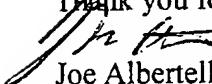

Joe Albertelli
Advanced Composites Engineering

EXHIBIT B

**LETTER FROM MR. MALOTKY THE SECRETARY
OF TRANSPORTATION**



U.S. Department
of Transportation

**Federal Aviation
Administration**

Associate Administrator
for Civil Aviation Security

800 Independence Ave., SW
Washington, DC 20591

September 26, 2001

Mr. Joe Albertelli
Advanced Composites Engineering
41145 Sarah Way
Temecula, CA 92590

Dear Mr. Albertelli:

Thank you for your letter of September 21, providing information on products to improve aviation security. We at the Federal Aviation Administration (FAA) Security appreciate you taking the time to provide us with this information. We have had an unprecedented response from the American public and industry following the tragic events in New York, Pennsylvania, and Washington, D.C.

FAA Security is currently working aggressively to reflect, respond, and resolve security concerns. Our immediate task is to ensure that these incidents never occur again.

I assure you that all options are being considered. The Secretary of Transportation has established two Task Forces to address precisely these matters. We are collecting, evaluating, and prioritizing ideas that will help to develop a new national strategy to prevent the repeat of these heinous acts. I suggest that you follow the news and FAA web page to understand and participate in the evolving aviation security strategy of the next few years.

Thank you for taking the time to contact us.

Sincerely,

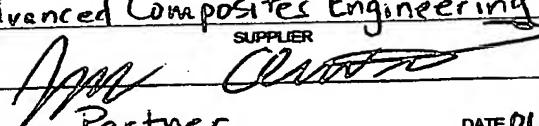
Lyle O. Malotky, Ph.D.
Chief Scientific and Technical Advisor

EXHIBIT C

**PICTURES TAKEN DURING THE MONTH OF APRIL 2001
DEMONSTRATING FABRICATION OF VARIOUS SECURE COMPOSITE
AIRCRAFT PARTS, INCLUDING THE SECURE COCKPIT DOOR FOR
THE MD-80 COMMERCIAL AIRCRAFT (SEE PICTURE MARKED "C").**

The Boeing Company

QUOTATION MUST BE RETURNED
TO THE ADDRESS NOTED BELOW
BY: 01/29/2001INVITATION TO QUOTE
(THIS IS NOT AN ORDER)

AUTHORIZING DOCUMENT NO.	DATE	REFERENCE NO.	CONTRACT <input type="checkbox"/> GOVERNMENT <input checked="" type="checkbox"/> COMMERCIAL				
zero	01/22/2001	LL-01-2244	<p>We reserve the right to reject any and all quotations.</p> <p>If your quotation is acceptable, you will be offered a purchase order subject to our provisions, a copy of which is attached hereto, and such other conditions as may be specified herein. If you cannot accept these conditions, your specific objections should be returned with your quotation.</p> <p>Any drawings, specifications, samples or other information furnished hereto in connection with this invitation to quote, will be disseminated to other Government facilities with written permission and must be returned on completion.</p> <p>If you enter into a lease using Government-owned facilities, furnished to you on a no-charge basis, in the manufacture of the items listed below, please quote prices on both rent-inclusive and no-charge basis, and indicate related Government Facilities contract number.</p> <p>If a cost breakdown is required, the information to be furnished will be indicated as an attachment to this invitation to quote.</p> <p>If the response to this solicitation contains any costs or charges for royalties totaling more than \$250, the "Royalty Information" required in FAR52.227-9 shall be furnished.</p>				
ITEM	QUANTITY	UNIT	PART NUMBER/DESCRIPTION		FIRM SCHEDULE	UNIT PRICE / DISCOUNT	
			REQUIRED AT DESTINATION	DATE			
01	1	LT	<p>PLEASE PROVIDE FIRM FIXED PRICE, DELIVERY, ALL APPLICABLE DISCOUNTS, AND THE INFORMATION REQUESTED AT THE BOTTOM OF THIS PAGE FOR THE FOLLOWING ITEMS:</p> <p>VEHICLE SKIN</p> <p>PLEASE QUOTE OSIRIS VEHICLE SKIN PER ATTACHED SKETCHES OF THE NOSE, MID BODY, AND TAIL SECTION</p> <p>PLEASE QUOTE ALL NRE CHARGES.</p> <p>THE ATTACHED FORM TITLED ADDITIONAL ITO REQUIREMENTS APPLIES TO THIS INVITATION</p> <p>YOUR QUOTE MUST BE ADDRESSED/DELIVERED IN ACCORDANCE WITH THE ATTACHED "IMPORTANT BID INSTRUCTIONS".</p> <p>ANY QUESTIONS WHICH YOU MAY HAVE CONCERNING THIS INVITATION SHOULD BE ADDRESSED TO:</p> <p>K. KAUB (714) 762-3708 (714) 762-1753</p> <p>THE ATTACHED FLYSHEET COPIES WILL FORM A PART OF ANY ORDER RESULTING FROM THIS INVITATION:</p> <p>GP1</p>		03/30/2001	1/29/16/01	\$32,250. (SEE ATTACHED) PAGE # 1
SUPPLIER - FILL IN ALL INFORMATION WITHIN HEAVY BOLD LINES (USE ADDITIONAL PAGES IF NECESSARY)							
SEEING / SEE Pg. 1	PACKAGING / SEE Pg. 2	EXCISE TAX / ^{UP} \$2,199. / RESALE #	OTHER TAXES (LIST AND EXPLAIN)	OTHER CHARGES			
\$32,000 / Pg. 1	\$	\$	\$	\$			
F.O.B.	FREIGHT ALLOWANCE	SHIPPING WEIGHT	TERMS	ARE YOU A SMALL BUSINESS	HOW MANY EMPLOYEES DO YOU HAVE		
TEMECULA	SEE Pg. 2	SEE Pg. 2	SEE Pg. 1	CONCERN <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	INCLUDING EMPLOYEES OF DIVISIONS AND AFFILIATES? 15		
DESTINATION	ENCLOSURES (5)		THE UNDERSIGNED AGREES TO ACCEPT AN ORDER FOR THE ITEMS LISTED ABOVE AT THE PRICES AND SCHEDULES INDICATED ON THIS QUOTATION, AND IN ACCORDANCE WITH THE PROVISIONS STATED HEREIN. PRICES AND SCHEDULES WILL BE FIRM FOR A PERIOD OF 30 DAYS				
ADDRESS REPLY TO: Electronic Systems and Missile Defense 3370 Miraloma Avenue P.O. Box 3105 - D/153, 031-AC31 Anaheim, CA 92803-3105			Advanced Composites Engineering SUPPLIER By  Title: Partner				DATE 01/25/01
ATTN: BID CONTROL			FAX: (714)762-3972				

The Boeing Company

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TO THE ADDRESS NOTED BELOW
BY: 01/29/2001INVITATION TO QUOTE
(THIS IS NOT AN ORDER)

AUTHORIZING DOCUMENT NO.	DATE	REFERENCE NO.	CONTRACT <input type="checkbox"/> GOVERNMENT <input checked="" type="checkbox"/> COMMERCIAL
000	01/22/2001	LL-01-2244	We reserve the right to reject any and all quotations.
TO: ADVANCE COMPOSITES ENGINEERING 42245 SARAH WAY TEMECULA CA JOE ALBERTELLI (909) 694-3055			If your quotation is acceptable, you will be offered a purchase order subject to our provisions, a copy of which is attached hereto, and such other codes and flysheet as may be expanded hereto. If you cannot accept these conditions, your specific objections should be returned with your quotation.
			Any drawings, specifications, samples or other information furnished to you in connection with this invitation to quote shall not be disclosed to others without our written permission and must be returned with your quotation.
			If you contemplate using Government-owned facilities, furnished to you on a no-charge basis, in the manufacture of the items listed below, please quote prices on cost-reimbursable and no-charge basis, and indicate related Government Facilities contract number.
			If a cost breakdown is required, the information to be furnished will be included as an attachment to this invitation to quote.
			If the response to this solicitation contains any costs or charges for royalties totaling more than \$250, the "Royalty Information" required in FAR 52.227-14 shall be furnished.

ITEM	QUANTITY	UNIT	PART NUMBER/DESCRIPTION	REQUIRED AT DESTINATION	FIRM SCHEDULE	UNIT PRICE / DISCOUNT
				DATE	QUANTITY	
01	1	LT	<p>PLEASE PROVIDE FIRM FIXED PRICE, DELIVERY, ALL APPLICABLE DISCOUNTS, AND THE INFORMATION REQUESTED AT THE BOTTOM OF THIS PAGE FOR THE FOLLOWING ITEMS:</p> <p>VEHICLE SKIN</p> <p>PLEASE QUOTE OSIRIS VEHICLE SKIN PER ATTACHED SKETCHES OF THE NOSE, MID BODY, AND TAIL SECTION</p> <p>PLEASE QUOTE ALL NRE CHARGES.</p> <p>THE ATTACHED FORM TITLED ADDITIONAL ITQ REQUIREMENTS APPLIES TO THIS INVITATION</p> <p>YOUR QUOTE MUST BE ADDRESSED/DELIVERED IN ACCORDANCE WITH THE ATTACHED "IMPORTANT BID INSTRUCTIONS".</p> <p>ANY QUESTIONS WHICH YOU MAY HAVE CONCERNING THIS INVITATION SHOULD BE ADDRESSED TO: K. KAUB (714) 762-3708</p> <p>THE ATTACHED FLYSHEET COPIES WILL FORM A PART OF ANY ORDER RESULTING FROM THIS INVITATION: GPI</p>	03/30/2001	1	

SUPPLIER - FILL IN ALL INFORMATION WITHIN HEAVY BOLD LINES (USE ADDITIONAL PAGES IF NECESSARY)

TOOLING	PACKAGING	EXCISE TAX	OTHER TAXES (LIST AND EXPLAIN)	OTHER CHARGES
\$	\$	\$	\$	\$
F.O.B.	FREIGHT ALLOWANCE	SHIPPING WEIGHT	TERMS	ARE YOU A SMALL BUSINESS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO HOW MANY EMPLOYEES DO YOU HAVE INCLUDING EMPLOYEES OF DIVISIONS AND CONCERN <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO AFFILIATES?
DESTINATION		ENCLOSURES		THE UNDERSIGNED AGREES TO ACCEPT AN ORDER FOR THE ITEMS LISTED ABOVE AT THE PRICES AND SCHEDULES INDICATED ON THIS QUOTATION, AND IN ACCORDANCE WITH THE PROVISIONS STATED HEREIN. PRICES AND SCHEDULES WILL BE FIRM FOR A PERIOD OF <u> </u> DAYS
ADDRESS REPLY TO: Electronic Systems and Missile Defense 3370 Miraloma Avenue P.O. Box 3105 - D/153, 031-AC31 Anaheim, CA 92803-3105		SUPPLIER BY _____ TITLE _____ DATE _____		
ATTN. BID CONTROL		FAX: (714)762-3972		

COMPLETE AND RETURN

The Boeing Company

QUOTATION MUST BE RETURNED
TO THE ADDRESS NOTED BELOW
BY: 01/29/2001

INVITATION TO QUOTE
(THIS IS NOT AN ORDER)

AUTHORIZING DOCUMENT NO.	DATE	REFERENCE NO.	CONTRACT <input type="checkbox"/> GOVERNMENT <input checked="" type="checkbox"/> COMMERCIAL
nero	01/22/2001	LL-01-2244	<p>We reserve the right to reject any and all quotations.</p> <p>If your quotation is acceptable, you will be offered a purchase order subject to our provisions, a copy of which is attached hereto, and such other codes and flysheets as may be appended hereto. If you cannot accept these conditions, your specific objections should be returned with your quotation.</p> <p>Any drawings, specifications, samples or other information furnished to you in connection with this invitation to quote shall not be disclosed to others without our written permission and must be returned with your quotation.</p> <p>If you contemplate using Government-owned facilities, furnished to you on a no-charge basis, in the manufacture of the items listed below, please quote prices on both rent-inclusive and no-charge basis, and indicate related Government Facilities contract number.</p> <p>If a cost breakdown is required, the information to be furnished will be included as an attachment to this invitation to quote.</p> <p>If the response to this solicitation contains any costs or charges for royalties totaling more than \$250, the "Royalty Information" required in FAR52.227-9 shall be furnished.</p>

ITEM	QUANTITY	UNIT	PART NUMBER/DESCRIPTION	REQUIRED AT DESTINATION		FIRM SCHEDULE	UNIT PRICE / DISCOUNT
				DATE	QUANTITY		
01	1	LT	<p>PLEASE PROVIDE FIRM FIXED PRICE, DELIVERY, ALL APPLICABLE DISCOUNTS, AND THE INFORMATION REQUESTED AT THE BOTTOM OF THIS PAGE FOR THE FOLLOWING ITEMS:</p> <p>VEHICLE SKIN PLEASE QUOTE OSIRIS VEHICLE SKIN PER ATTACHED SKETCHES OF THE NOSE, MID BODY, AND TAIL SECTION PLEASE QUOTE ALL NRE CHARGES.</p> <p>THE ATTACHED FORM TITLED ADDITIONAL ITO REQUIREMENTS APPLIES TO THIS INVITATION</p> <p>YOUR QUOTE MUST BE ADDRESSED/DELIVERED IN ACCORDANCE WITH THE ATTACHED "IMPORTANT BID INSTRUCTIONS".</p> <p>ANY QUESTIONS WHICH YOU MAY HAVE CONCERNING THIS INVITATION SHOULD BE ADDRESSED TO: K. KAUB (714) 762-3708</p> <p>THE ATTACHED FLYSHEET COPIES WILL FORM A PART OF ANY ORDER RESULTING FROM THIS INVITATION: GP1</p>	03/30/2001	104/16/01	\$32,250.00 See attached page #1.)	

SUPPLIER - FILL IN ALL INFORMATION WITHIN HEAVY BOLD LINES (USE ADDITIONAL PAGES IF NECESSARY)					
TOOLING \$ 98,000.	PACKAGING \$ 700	EXCISE TAX / OR \$ 2,499. / RESALE # \$	OTHER TAXES (LIST AND EXPLAIN)	OTHER CHARGES \$	
F.O.B.	FREIGHT ALLOWANCE	SHIPPING WEIGHT	TERMS	ARE YOU A SMALL BUSINESS	HOW MANY EMPLOYEES DO YOU HAVE INCLUDING EMPLOYEES OF DIVISIONS AND AFFILIATES? 15
DESTINATION		ENCLOSURES		THE UNDERSIGNED AGREES TO ACCEPT AN ORDER FOR THE ITEMS LISTED ABOVE AT THE PRICES AND SCHEDULES INDICATED ON THIS QUOTATION, AND IN ACCORDANCE WITH THE PROVISIONS STATED HEREIN. PRICES AND SCHEDULES WILL BE FIRM FOR A PERIOD OF DAYS	
ADDRESS REPLY TO: Electronic Systems and Missile Defense 3370 Miraloma Avenue P.O. Box 3105 - D/153, 031-AC31 Anaheim, CA 92803-3105			SUPPLIER		
			BY _____ TITLE Partner		
ATTN: BID CONTROL			FAX: (714)762-3972		

Complete

The Boeing Company
3370 Miraloma Avenue, P.O. Box 3105
Anaheim, CA 92803-3105

S335-89AL 01085-19:25:25 PAGE 1 OF 2

PURCHASE OR

E1 18	TCN 131	P.O. NUMBER A1JG-JF5893-3-352	DATE PREPARED 03-26-01
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SB 10	SUPPLIER CODE W2426	PA 352	BUYER NO. 352	REFERENCE JOE	CONTRACT ("C" - COMMERCIAL, "X" - GOVT.)	PRIORITY RATING CERT. UNDER DMS REQ. 1
IN-PLANT ROUTING D/778-000 B/222 MARTIN M/8647					PROVISIONS ATTACHED HERETO AND MADE A PART OF: SEE BELOW GP1	
RESALE: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> X+1	BILL 3370 MIRALOMA AVE P.O. BOX 61096 ANAHEIM, CA 92803-61096		SHIP VIA: DART INTERNATIONAL			
T: ADVANCED COMPOSITES O: 42245 SARAH WAY TEMECULA, CA 92590					TERMS: 0.50% IOD N30	
F.O.B. YOUR PLANT TEMECULA CA					SHIP TO: THE BOEING COMPANY 3330 E MIRALOMA, BLDG 222 ANAHEIM, CA 92803	

DELIVERY SCHEDULES - QUANTITIES REPRESENT THE NUMBER OF PARTS OR MATERIAL REQUIRED ON THE BOEING DOCK ON DATE INDICATED

ITEM	QUANTITY & DATE	QUANTITY & DATE	QUANTITY & DATE	QUANTITY & DATE	QUANTITY & DATE
ALL	ITEMS 05-28-01				
ITEM	QUANTITY	SUPPLIER'S PART NO.	ITEM IDENTIFICATION NO.	U.M.	G.O.
1	✓ 1	11110-316-1REV.A STBD SIDE NOSE SECTION		EA	3,925.00
1.1	NOTED	NON-RECURRING NRE/TC CHARGES		LOT	3,250.00
2	✓ 1	11111-316-1REV.A PORT SIDE, NOSE SECTION		EA	4,850.00
2.1	NOTED	NON-RECURRING NRE/TC CHARGES		LOT	3,105.00
3	✓ 1	11113-316-1REV.A LOWER, CENTER, NOSE SECTION		EA	5,100.00
3.1	NOTED	NON-RECURRING NRE/TC CHARGES		LOT	1,530.00
4	✓ 1	11115-316-REV.A UPPER FORWARD, NOSE SECTION		EA	2,700.00
4.1	NOTED	NON-RECURRING NRE/TC CHARGES		LOT	1,700.00
5	✓ 1	11120-316-1REV.A UPPER CENTER, MID SECTION		EA	1,665.00
5.1	NOTED	NON-RECURRING NRE/TC CHARGES		LOT	3,170.00
6	✓ 1	11121-316-1REV.A PORT/STBD SIDE, MID SECTION		EA	1,440.00
6.1	NOTED	NON-RECURRING NRE/TC CHARGES		LOT	2,520.00
6.2	✓ 1	11121-316-1REV.A PORT/STBD SIDE, MID SECTION		EA	2,385.00
6.3	NOTED	NON-RECURRING NRE/TC CHARGES		LOT	4,100.00

ACCEPTANCE OF THE OFFER REPRESENTED BY THIS ORDER IS EXPRESSLY LIMITED TO THE PROVISIONS HEREOF, SIGNING AND RETURNING THE ACKNOWLEDGEMENT COPY OF THIS ORDER (IF ATTACHED HERETO) OR, IN ANY EVENT, DELIVERY IN WHOLE OR IN PART OF THE ARTICLES TO BE FURNISHED HEREUNDER SHALL CONSTITUTE ACCEPTANCE OF THIS ORDER. THIS IS THE ENTIRE CONTRACT AND NO CHANGES OF ANY KIND WHATSOEVER ARE BINDING ON BUYER UNLESS THEY ARE IN WRITING AND SIGNED BY AN AUTHORIZED REPRESENTATIVE OF BUYER'S PURCHASING DEPARTMENT.

The Boeing Company

EFFECTIVE DATE OF THIS PURCHASE ORDER _____

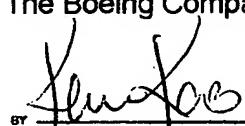
BY _____

E1 19

TCN
131

P.O. NUMBER
A1JG-JF5893-3-352

DATE PREPARED
03-26-01

SB 10	SUPPLIER CODE W2426	PA	BUYER NO. 352	REFERENCE JOE	CONTRACT ("C" - COMMERCIAL, "X" - GOVT.)	PRIORITY RATING CERT. UNDER DMG REG. I		
IN-PLANT ROUTING					PROVISIONS ATTACHED HERETO AND MADE A PART OF:			
CALIF. PERMIT NO: SZ-AB-98-006938		BILL 3370 MIRALOMA AVE P.O. BOX 61096		RESALE: YES <input type="checkbox"/> NO <input type="checkbox"/>		TO: ANAHEIM, CA 92803-6196	SHIP VIA:	
T O:					TERMS:		SS	
F.O.B.					SHIP TO:			
DELIVERY SCHEDULES - QUANTITIES REPRESENT THE NUMBER OF PARTS OR MATERIAL REQUIRED ON THE BOEING DOCK ON DATE INDICATED								
ITEM	QUANTITY & DATE		QUANTITY & DATE		QUANTITY & DATE		QUANTITY & DATE	
ITEM	QUANTITY	SUPPLIER'S PART NO.		ITEM IDENTIFICATION NO.		U.M	G.O.	UNIT PRICE
PO	NOTED	*5 778 17960 37155 61000						
	"REVISION DATES OF PROVISIONS 881-T-5 IS 1-97; 881-T-3 IS 3-97; 881-T-1 IS 3-98; GP1,2 & 4 IS 2-01. GP3 IS 2-01. FLYSHEETS AN-CXX ARE SUPERCEDED BY PROVISION FLYSHEETS WHERE THERE IS A DUPLICATION."							
	THIS ORDER IS CORRELATED WITH PURCHASE ORDER A1JG-JF5892-3-352 FOR PURPOSES OF PRICE AND DELIVERY ONLY.							
REQ POA-3	7R0632	*BUYERS USE ONLY /S.JH/						35,490.00 T
ACCEPTANCE OF THE OFFER REPRESENTED BY THIS ORDER IS EXPRESSLY LIMITED TO THE PROVISIONS HEREOF, SIGNING AND RETURNING THE ACKNOWLEDGEMENT COPY OF THIS ORDER (IF ATTACHED HERETO) OR, IN ANY EVENT, DELIVERY IN WHOLE OR IN PART OF THE ARTICLES TO BE FURNISHED HEREUNDER SHALL CONSTITUTE ACCEPTANCE OF THIS ORDER. THIS IS THE ENTIRE CONTRACT AND NO CHANGES OF ANY KIND WHATSOEVER ARE BINDING ON BUYER UNLESS THEY ARE IN WRITING AND SIGNED BY AN AUTHORIZED REPRESENTATIVE OF BUYER'S PURCHASING DEPARTMENT.								
The Boeing Company  3/28/01 BY _____								
EFFECTIVE DATE OF THIS PURCHASE ORDER _____								

The Boeing Company
3370 Miraloma Ave, P.O. Box 3105
Anaheim, CA 92803-3105

S335-92AL 01130-07:48:19

PURCHASE ORDER CHANGE NOTICE

PAGE 1 OF 1

E1 1

TON

131

P.O. NUMBER

A1JG-JF5893-3-352

DATE PREPARED

03-26-01

SB 10	SUPPLIER CODE W2426	PA	BUYER NO 352	REFERENCE	CONTRACT ('C'-COMMERCIAL, 'X'-GOVT)	PRIORITY RATING CERT. UNDER DMARS REG. 1
TO: ADVANCED COMPOSITES 42245 SARAH WAY TEMECULA, CA 92590					TERMS 0.50%10D N30	SS A2
					PART NO. AND NAME (IF NOT SHOWN) 11110-316-1REV.B SKIN	
					REQUISITION NO.	
					ACCOUNT NO. NO CHANGE	
CHANGE NOTICE NO. 2				DATE 10 MAY 01		
ITEM	DESCRIPTION AS CHANGED				UNIT PRICE AS CHANGED	TOTAL ITEM AMOUNT AS CHANGED
1	CHANGE PART NO. 'TO: 11110-316-1REV.B					
2	CHANGE PART NO. 'TO: 11111-316-1REV.B					
3	CHANGE PART NO. 'TO: 11113-316-1REV.B					
4	CHANGE PART NO. 'TO: 11115-316-1REV.B					
5	CHANGE PART NO. 'TO: 11120-316-1REV.B				2 ea	
6	CHANGE PART NO. 'TO: 11121-316-1REV.B				2 ea	
SJH/270						FOR BOEING USE ONLY' TOTAL CONTRACT AMOUNT
						\$ 35,815.00 (BEFORE THIS CHANGE)
						\$ 35,815.00 (AFTER THIS CHANGE)

FORM 100-V-19 REV 1-80

The Boeing Company

BY

EFFECTIVE DATE OF THIS CHANGE NOTICE

The Boeing Company
3370 Miraloma Avenue, P.O. Box 3105
Anaheim, CA 92803-3105

S335-89AL 01085-19:25:25 PAGE 1 OF 1

PURCHASE ORDER

E1 17 TCN 131 P.O. NUMBER A1JG-JF5892-3-352 DATE PREPARED 03-26-01

SB 10	SUPPLIER CODE W2426	PA	BUYER NO. 352	REFERENCE JOE	CONTRACT (C - COMMERCIAL, T - GOVT.)	PRIORITY RATING (CONT. UNDER DMS PRED. 1)		
IN-PLANT ROUTING D/778-000 B/222 MARTIN M/8647					PROVISIONS ATTACHED HERETO AND MADE A PART OF: SEE BELOW GP1			
CALIF. PERMIT NO. SZ-AB-98-005938 RESALE: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		BILL P.O. BOX 61096 TO: ANAHEIM, CA 92803-6196		SHIP VIA: DART INTERNATIONAL				
T: ADVANCED COMPOSITES O: 42245 SARAH WAY TEMECULA, CA 92590					TERMS: 0.50% IUD N30			
F.O.B. YOUR PLANT TEMECULA CA					SHIP TO: THE BOEING COMPANY 3330 E MIRALOMA, BLDG 222 ANAHEIM, CA 92803			
DELIVERY SCHEDULES - QUANTITIES REPRESENT THE NUMBER OF PARTS OR MATERIAL REQUIRED ON THE BOEING DOCK ON DATE INDICATED								
ITEM	QUANTITY & DATE		QUANTITY & DATE		QUANTITY & DATE		QUANTITY & DATE	
ALL	ITEMS	05-14-01						
ITEM	QUANTITY	SUPPLIER'S PART NO.		ITEM IDENTIFICATION NO.		UM	G.O.	UNIT PRICE
1	(2)	4	11130-316-1REV.A FORWARD, TAIL SECT, MECH DETAIL. SEE ATTACHED DRWS			EA		2,250.00
1.1	NOTED	NON-RECURRING NRE/TC CHARGES				LOT		4,100.00 2,700.00
2	✓	4	11131-316-1REV.A AFT, TAIL SECT, MECH DETAIL			EA		2,565.00
2.1	NOTED	NON-RECURRING NRE/TC CHARGES				LOT		4,600.00
*5 778 17960 37155 61000								
PO	NOTED	"REVISION DATES OF PROVISIONS 881-T-5 IS 1-97; 881-T-3 IS 3-97; 881-T-1 IS 3-98; GP1,2 & 4 IS 2-01. GP3 IS 2-01. FLYSHEETS AN-CXX ARE SUPERCEDED BY PROVISION FLYSHEETS WHERE THERE IS A DUPLICATION."						
25/4/00 16/12/00 THIS ORDER IS CORRELATED WITH PURCHASE ORDER A1JG-JF5893-C-352 FOR PURPOSES OF PRICE AND DELIVERY ONLY								
REQ POA	7A8573 3	*BUYERS USE ONLY /SJH/						26,560.00 T

ACCEPTANCE OF THE OFFER REPRESENTED BY THIS ORDER IS EXPRESSLY LIMITED TO THE PROVISIONS HEREOF. SIGNING AND RETURNING THE ACKNOWLEDGEMENT
COPY OF THIS ORDER (IF ATTACHED HERETO) OR, IN ANY EVENT, DELIVERY IN WHOLE OR IN PART OF THE ARTICLES TO BE FURNISHED HEREUNDER SHALL CONSTITUTE
ACCEPTANCE OF THIS ORDER. THIS IS THE ENTIRE CONTRACT AND NO CHANGES OF ANY KIND WHATSOEVER ARE BINDING ON BUYER UNLESS THEY ARE IN WRITING AND
SIGNED BY AN AUTHORIZED REPRESENTATIVE OF BUYER'S PURCHASING DEPARTMENT.

The Boeing Company

EFFECTIVE DATE OF THIS PURCHASE ORDER

3/28/01

by *John G. B.*

07/02/01 MON 11:33 FAX

BOEING ANA

PURCHASE ORDER CHANGE NOTICE

The Boeing Company
3970 S. Western Ave., P.O. Box 3105
Anaheim, CA 92803-3105

S335-92AL 01150-09 1:14

PAGE 1 OF 1

EE1	1	TON	PO NUMBER	DATE PREPARED
		631	A1JG-JF5892-3-352	03-26-01

99 10	SUPPLIER CODE W2426	PA 352	BUYER NO 352	REFERENCE NOTE 1	CONTRACT/COMMERICAL/GOVT	PROJ/PROG/DEPT UNDER DISCREPANCY
<p>TO: ADVANCED COMPOSITES 42245 SARAH WAY TEMECULA, CA 92590</p>					TERMS 0.50% LOD N30	ES A2
					PART NUMBER/FAO SHOWN 11130-316-1REV.B	
					SKIN	
					REQUISITION NO	
					ACCOUNT NO NO CHANGE	

CHANGE NOTICE NO. 3	DATE 30 MAY 01
------------------------	-------------------

ITEM	DESCRIPTION AS CHANGED	UNIT PRICE AS CHANGED	TOTAL ITEM AMOUNT AS CHANGED
1	DECREASE QUANTITY FROM 4 EA TO 2 EA CHANGE DELIVERY SCHEDULE TO: 06-18-01 (2)		
2	CHANGE DELIVERY SCHEDULE TO: 06-18-01 (4)		
ADD 3	1 EA 11132-316REV.A SKIN	2,500.00	
	DELIVERY SCHEDULE: 06-18-01 (1)		
	ACCOUNT: 5-778-17960-37155-61000 (1)		
ADD 4	1 EA 11133-316REV.A SKIN	2,500.00	
	DELIVERY SCHEDULE: 06-18-01 (1)		
	ACCOUNT: 5-778-17960-37155-61000 (1)		
ALL	NOTE 1: KEVIN/JOE 5/24/01		
	SJB/270	FOR BOEING USE ONLY TOTAL CONTRACT AMOUNT	
		\$ 27,960.00 (BEFORE THIS CHANGE)	
		\$ 28,460.00 (AFTER THIS CHANGE)	

The Boeing Company

EFFECTIVE DATE OF THIS CHANGE NOTICE

6/4/01

BY Ken Kays

S335-92AA 01130-07:12:09

PURCHASING COPY
PAGE 1 OF 1

E1 1

TON P.Q. NUMBER

131 A1JG-JF5892-3-352

DATE PREPARED
03-26-01

69 10	SUPPLIER CODE W2426	PA 352	BUYER NO. REFERENCE	CONTRACT (C=COMMERCIAL, G=GOVERNMENT) 131 A1JG-JF5892-3-352	PROPERTY STATUS CODE (C=CONTRACT, G=GOVERNMENT)
TO: ADVANCED COMPOSITES 42245 SARAH WAY TEMECULA, CA 92590				TERMS 0.50%10D N30	69 A2
				PART NO. AND NAME (IF NOT SHOWN) 11130-316-1REV.B SKIN	
				REQUISITION NO.	
				ACCOUNT NO. NO CHANGE	
CHANGE NOTICE NO. 2				DATE 10 MAY 01	
ITEM	DESCRIPTION AS CHANGED			UNIT PRICE AS CHANGED	TOTAL ITEM AMOUNT AS CHANGED
1	CHANGE PART NO. TO: 11130-316-1REV.B				
2	CHANGE PART NO. TO: 11131-316-1REV.B				
PQA-3				SJH/270	
FOR BOEING USE ONLY TOTAL CONTRACT AMOUNT					
\$ 27,960.00 (BEFORE THIS CHANGE)					
\$ 27,960.00 (AFTER THIS CHANGE)					

E1	1	TON 631	P.O. NUMBER A1JG-JF5892-3-352	DATE PREPARED 03-26-01
SB 10	SUPPLIER CODE W2426	PA	BUYER NO 352	REFERENCE
				CONTRACT (PC=COMMERCIAL, X=GOVT)
				PRIORITY RATING CERT. UNDER DODINS REG. I
TO: ADVANCED COMPOSITES 42245 SARAH WAY TEMECULA, CA 92590				TERMS 0.50%10D N30
				SS A2
				PART NO. AND NAME (IF NOT SHOWN) 11130-316-1REV.A SKIN
				REQUISITION NO.
				ACCOUNT NO. NO CHANGE
CHANGE NOTICE NO.		1	DATE 16 APR 01	

ITEM	DESCRIPTION AS CHANGED	UNIT PRICE AS CHANGED	TOTAL ITEM AMOUNT AS CHANGED
1.1	INCREASE CHARGE FROM: 2,700.00/LT TO: CHANGE DESCRIPTION TO: NRE/TC CHARGES ITEM 1.1: NRE/TC CHARGES	4,100.00/LT	
SJH/270		FOR BOEING USE ONLY TOTAL CONTRACT AMOUNT \$ 26,560.00 (BEFORE THIS CHANGE) \$ 27,960.00 (AFTER THIS CHANGE)	

The Boeing Company

4/19/01
BY 

EFFECTIVE DATE OF THIS CHANGE NOTICE

The Boeing Company
5370 Miraloma Ave, P.O. Box 3105
Anaheim, CA 92803-3105

PURCHASE ORDER CHANGE NOTICE
S335-92AL 01130-07:49:09 PAGE 1 OF 1

E1 1		TCN 131	P.O. NUMBER A1JG-JF5892-3-352	DATE PREPARED 03-26-01		
SB 10	SUPPLIER CODE W2426	PA	BUYER NO 352	REFERENCE	CONTRACT ('C'-COMMERCIAL, 'X'-GOVT)	PRIORITY RATING CERT. UNDER DMS REG. I
T: O: ADVANCED COMPOSITES 42245 SARAH WAY TEMECULA, CA 92590				TERMS 0.50%10D N30	SS A2	
				PART NO. AND NAME (IF NOT SHOWN) 11130-316-1REV.B SKIN		
				REQUISITION NO.		
				ACCOUNT NO. NO CHANGE		
CHANGE NOTICE NO. 2		DATE 10 MAY 01				
ITEM	DESCRIPTION AS CHANGED				UNIT PRICE AS CHANGED	TOTAL ITEM AMOUNT AS CHANGED
1	CHANGE PART NO. 'TO: 11130-316-1REV.B					
2	CHANGE PART NO. 'TO: 11131-316-1REV.B					
SJH/270						FOR BOEING USE ONLY TOTAL CONTRACT AMOUNT \$ 27,9650.00 (BEFORE THIS CHANGE) \$ 27,9650.00 (AFTER THIS CHANGE)

The Boeing Company

EFFECTIVE DATE OF THIS CHANGE NOTICE

5/14/01

BY *[Signature]*

The Boeing Company
3370 Miraloma Ave, P.O. Box 3105
Anaheim, CA 92803-3105

PURCHASE ORDER CHANGE NOTICE
S335-92AL 01149-15:13:55 PAGE 1 OF 1

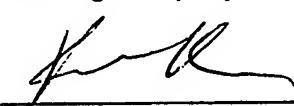
E1 1		TON 631	P.O. NUMBER A1JG-JF5893-3-352	DATE PREPARED 03-265-01
SB 10	SUPPLIER CODE W2426	PA 352	REFERENCE	CONTRACT ('C'-COMMERCIAL, 'X'-GOVT)
TO: ADVANCED COMPOSITES 42245 SARAH WAY TEMECULA, CA 92590				TERMS 0.50%10D N30 SS A2
				PART NO AND NAME (IF NOT SHOWN) 11115-316-1REV.B SKIN
				REQUISITION NO.
				ACCOUNT NO. NO CHANGE
CHANGE NOTICE NO. 3		DATE 29 MAY 01		
ITEM	DESCRIPTION AS CHANGED			TOTAL ITEM AMOUNT AS CHANGED
4	INCREASE UNIT PRICE FROM 1,665.00 /EA TO:			1,985.00
SJH/270				FOR BOEING USE ONLY TOTAL CONTRACT AMOUNT \$ 35,815.00 (BEFORE THIS CHANGE) \$ 36,135.00 (AFTER THIS CHANGE)

EFFECTIVE DATE OF THIS CHANGE NOTICE

6/1/01

The Boeing Company

BY



The Boeing Company
3370 Miraloma Ave, P.O. Box 3105
Anaheim, CA 92803-3105

PURCHASE ORDER CHANGE NOTICE
S335-92AL 01165-19:22:08 PAGE 1 OF 1
TON 631 P.O. NUMBER A1JG-JF5893-3-352 DATE PREPARED
CONTRACT FC-COMMERCIAL X-GOV'T 03-265-01
REFERENCE

SB 10	SUPPLIER CODE W2426	PA	BUYER NO. 352	REFERENCE
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TO: ADVANCED COMPOSITES
42245 SARAH WAY
TEMECULA, CA 92590

CHANGE NOTICE NO.

6

DATE

14 JUN 01

TERMS
0.50%10D N30
PART NO. AND NAME (IF NOT SHOWN)
11110-316-1REV.B
SKIN
REQUISITION NO.
ACCOUNT NO.
NO CHANGE

SS
A2

TOTAL ITEM
AMOUNT
AS CHANGED

385.00 LT

DESCRIPTION AS CHANGED

ITEM
ADD
1.2
CRATE FOR SHIPPING

ITEM 1.2: CRATE FOR SHIPPING

FORM ANA-T0-V-19 REV 7-90

SJH/270

FOR BOEING USE ONLY
TOTAL CONTRACT AMOUNT

\$ 40,085.00
(BEFORE THIS CHANGE)
\$ 40,470.00
(AFTER THIS CHANGE)

The Boeing Company

1/2/01

✓/c

The Boeing Company

QUOTATION MUST BE RETURNED
TO THE ADDRESS NOTED BELOW

INVITATION TO QUOTE
(THIS IS NOT AN ORDER)

AUTHORIZING DOCUMENT NO. 7R0632/37	DATE 03/19/2001	REFERENCE NO. kk-01-7r0632	CONTRACT <input type="checkbox"/> GOVERNMENT <input checked="" type="checkbox"/> COMMERCIAL				
TO: ADVANCE COMPOSITES 42245 SARAH WAY TEMECULA CA JOE ALBERTILLI (909) 694-3055			We reserve the right to reject any and all quotations. If your quotation is acceptable, you will be offered a purchase order subject to our provisions, a copy of which is attached hereto, and such other codes and flysheets as may be appended hereto. If you cannot accept these conditions, your specific objections should be returned with your quotation. Any drawings, specifications, samples or other information furnished to you in connection with this invitation to quote shall not be disclosed to others without our written permission and must be returned with your quotation. If you contemplate using Government-owned facilities, furnished to you on a no-charge basis, in the manufacture of the items listed below, please quote prices on both rent-inclusive and no-charge basis, and indicate related Government Facilities contract number. If a cost breakdown is required, the information to be furnished will be included as an attachment to this invitation to quote. If the response to this solicitation contains any costs or charges for royalties totaling more than \$250, the "Royalty Information" required in FAR52.227-9 shall be furnished.				
ITEM	QUANTITY	UNIT	PART NUMBER/DESCRIPTION	REQUIRED AT DESTINATION		FIRM SCHEDULE	UNIT PRICE / DISCOUNT
				DATE	QUANTITY		
01	1	EA	11110-316-1 REV. A PLEASE QUOTE ALL NRE CHARGES. THE ATTACHED FORM TITLED ADDITIONAL ITQ REQUIREMENTS APPLIES TO THIS INVITATION	05/01/2001	1	<i>5/29/01</i>	
02	1	EA	11111-316-1 REV. A	05/01/2001	1	<i>5/29/01</i>	
03	1	EA	11113-316-1 REV. A	05/01/2001	1	<i>5/29/01</i>	
04	1	EA	11115-316-1 REV. A YOUR QUOTE MUST BE ADDRESSED/DELIVERED IN ACCORDANCE WITH THE ATTACHED "IMPORTANT BID INSTRUCTIONS".	05/01/2001	1		
05	1	EA	11120-316-1 REV. A ANY QUESTIONS WHICH YOU MAY HAVE CONCERNING THIS INVITATION SHOULD BE ADDRESSED TO: K. KAUB (714) 762-3708	05/01/2001	1		
06	1	EA	11121-316-1 REV. A THE ATTACHED FLYSHEET COPIES WILL FORM A PART OF ANY ORDER RESULTING FROM THIS INVITATION: GP1	05/01/2001	1		
SUPPLIER - FILL IN ALL INFORMATION WITHIN HEAVY BOLD LINES (USE ADDITIONAL PAGES IF NECESSARY)							
TOOLING \$	PACKAGING \$	EXCISE TAX \$	OTHER TAXES (LIST AND EXPLAIN) \$		OTHER CHARGES \$		
F.O.B.	FREIGHT ALLOWANCE	SHIPPING WEIGHT	TERMS	ARE YOU A SMALL BUSINESS		HOW MANY EMPLOYEES DO YOU HAVE INCLUDING EMPLOYEES OF DIVISIONS AND AFFILIATES?	
CONCERN <input type="checkbox"/> YES <input type="checkbox"/> NO							
DESTINATION			ENCLOSURES			THE UNDERSIGNED AGREES TO ACCEPT AN ORDER FOR THE ITEMS LISTED ABOVE AT THE PRICES AND SCHEDULES INDICATED ON THIS QUOTATION, AND IN ACCORDANCE WITH THE PROVISIONS STATED HEREIN. PRICES AND SCHEDULES WILL BE FIRM FOR A PERIOD OF <u> </u> DAYS	
ADDRESS REPLY TO: Electronic Systems and Missile Defense 3370 Miraloma Avenue P.O. Box 3105 - D/153, 031-AC31 Anaheim, CA 92803-3105						SUPPLIER	
						BY _____	
						TITLE _____ DATE _____	
ATTN: BID CONTROL			FAX: (714)762-3972				

COMPLETE AND RETURN

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